```
EEEEEEEEEEEEEEEE  DDDDDDDDDD      TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE  DDDDDDDDDD      TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEE  DDDDDDDDDD      TTTTTTTTTTTTTTT
EEE                DDD      DDD         TTT
EEE                DDD      DDD         TTT
EEE                DDD      DDD         TTT
EEE                DDD      DDD         TTT
EEE                DDD      DDD         TTT
EEEEEEEEEEEE       DDD      DDD         TTT
EEEEEEEEEEEE       DDD      DDD         TTT
EEEEEEEEEEEE       DDD      DDD         TTT
EEE                DDD      DDD         TTT
EEE                DDD      DDD         TTT
EEE                DDD      DDD         TTT
EEE                DDD      DDD         TTT
EEE                DDD      DDD         TTT
EEEEEEEEEEEEEEEE   DDDDDDDDDD           TTT
EEEEEEEEEEEEEEEE   DDDDDDDDDD           TTT
EEEEEEEEEEEEEEEE   DDDDDDDDDD           TTT
```

TITYPAHD. ....
                 ....
                 ....
                 ....

LIS

```
  1    0001   0  %TITLE 'EDT$TITYPAHD - check for type ahead'
  2    0002   0  MODULE EDT$TITYPAHD (                              ! Check for type ahead
  3    0003   0                  IDENT = 'V04-000'                  ! File: TITYPAHD.BLI Edit: JBS1004
  4    0004   0                  ) =
  5    0005   1  BEGIN
  6    0006   1  !
  7    0007   1  !****************************************************************************
  8    0008   1  !*                                                                          *
  9    0009   1  !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
 10    0010   1  !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                  *
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 25    0025   1  !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
 26    0026   1  !*                                                                          *
 27    0027   1  !*                                                                          *
 28    0028   1  !****************************************************************************
 29    0029   1  !
 30    0030   1
 31    0031   1  !++
 32    0032   1  ! FACILITY:      EDT -- The DEC Standard Editor
 33    0033   1  !
 34    0034   1  ! ABSTRACT:
 35    0035   1  !
 36    0036   1  !      Check for type ahead.
 37    0037   1  !
 38    0038   1  ! ENVIRONMENT:  Runs at any access mode - AST reentrant
 39    0039   1  !
 40    0040   1  ! AUTHOR: Bob Kushlis, CREATION DATE: June 9, 1979
 41    0041   1  !
 42    0042   1  ! MODIFIED BY:
 43    0043   1  !
 44    0044   1  ! 1-001 - Original.  DJS 18-FEB-1981.  This module was created by
 45    0045   1  !         extracting routine EDT$$TI_TSTTYAHED  from module TINPUT.
 46    0046   1  ! 1-002 - Regularize headers.  JBS 11-Mar-1981
 47    0047   1  ! 1-003 - Revise typeahead logic.  JBS 02-Sep-1982
 48    0048   1  ! 1-004 - Improve the appearance of the listing.  JBS 17-Jun-1983
 49    0049   1  !--
 50    0050   1
```

```
 52      0051   1   %SBTTL 'Declarations'
 53      0052   1   !
 54      0053   1   ! TABLE OF CONTENTS:
 55      0054   1   !
 56      0055   1
 57      0056   1   REQUIRE 'EDTSRC:TRAROUNAM';
 58      0495   1
 59      0496   1   FORWARD ROUTINE
 60      0497   1       EDT$$TI_TSTTYAHED;
 61      0498   1
 62      0499   1   !
 63      0500   1   ! INCLUDE FILES:
 64      0501   1   !
 65      0502   1
 66      0503   1   REQUIRE 'EDTSRC:EDTREQ';
 67      0638   1
 68      0639   1   !
 69      0640   1   ! MACROS:
 70      0641   1   !
 71      0642   1   !     NONE
 72      0643   1   !
 73      0644   1   ! EQUATED SYMBOLS:
 74      0645   1   !
 75      0646   1   !     NONE
 76      0647   1   !
 77      0648   1   ! OWN STORAGE:
 78      0649   1   !
 79      0650   1   !     NONE
 80      0651   1   !
 81      0652   1   ! EXTERNAL REFERENCES:
 82      0653   1   !
 83      0654   1   !     In the routine
```

```
  85      0655  1   %SBTTL 'EDT$$TI_TSTTYAHED  - check for type ahead'
  86      0656  1
  87      0657  1   GLOBAL ROUTINE EDT$$TI_TSTTYAHED                          ! Check for type ahead
  88      0658  1       =
  89      0659  1
  90      0660  1   !++
  91      0661  1   ! FUNCTIONAL DESCRIPTION:
  92      0662  1   !
  93      0663  1   !       This routine checks to see if a character was typed ahead.  If we
  94      0664  1   !       are in recovery mode, always return false.  If the type-ahead counter
  95      0665  1   !       is greater than 0, return true, and if not, try to read a type-ahead character
  96      0666  1   !       and if it is read, place it in the type-ahead buffer and return true.
  97      0667  1   !
  98      0668  1   ! FORMAL PARAMETERS:
  99      0669  1   !
 100      0670  1   !       NONE
 101      0671  1   !
 102      0672  1   ! IMPLICIT INPUTS:
 103      0673  1   !
 104      0674  1   !       EDT$$G_RCOV_MOD
 105      0675  1   !       EDT$$G_RDAHED
 106      0676  1   !
 107      0677  1   ! IMPLICIT OUTPUTS:
 108      0678  1   !
 109      0679  1   !       EDT$$G_RDAHED
 110      0680  1   !       EDT$$T_RDAHED
 111      0681  1   !
 112      0682  1   ! ROUTINE VALUE:
 113      0683  1   !
 114      0684  1   !       0 = no type ahead
 115      0685  1   !       1 = there was type ahead
 116      0686  1   !
 117      0687  1   ! SIDE EFFECTS:
 118      0688  1   !
 119      0689  1   !       NONE
 120      0690  1   !
 121      0691  1   !--
 122      0692  1
 123      0693  2       BEGIN
 124      0694  2
 125      0695  2       EXTERNAL ROUTINE
 126      0696  2           EDT$$TI_RDTYAHED;
 127      0697  2
 128      0698  2       EXTERNAL
 129      0699  2           EDT$$G_RCOV_MOD,                             ! Recovery mode flag
 130      0700  2           EDT$$G_RDAHED,                              ! Type ahead counter
 131      0701  2           EDT$$T_RDAHED;                              ! Text from type-ahead
 132      0702  2
 133      0703  2       IF .EDT$$G_RCOV_MOD THEN RETURN (0);
 134      0704  2
 135      0705  2       IF (.EDT$$G_RDAHED GTR 0) THEN RETURN (1);
 136      0706  2
 137      0707  2       EDT$$G_RDAHED = EDT$$TI_RDTYAHED (EDT$$T_RDAHED);
 138      0708  2
 139      0709  2       IF (.EDT$$G_RDAHED GTR 0) THEN RETURN (1) ELSE RETURN (0);
 140      0710  2
 141      0711  1       END;                                           ! of routine EDT$$TI_TSTTYAHD
```

EDT$TITYPAHD   EDT$TITYPAHD - check for type ahead   L 11
V04-000   EDT$STI_TSTTYAHED - check for type ahead   16-Sep-1984 01:57:01   VAX-11 Bliss-32 V4.0-742   Page 4
                                                                14-Sep-1984 12:24:59   DISK$VMSMASTER:[EDT.SRC]TITYPAHD.BLI;1 (3)

```
;

                                                        .TITLE   EDT$TITYPAHD EDT$TITYPAHD - check for type ahea
                                                                 d
                                                        .IDENT   \V04-000\

                                                        .EXTRN   EDT$STI_RDTYAHED
                                                        .EXTRN   EDT$$G_RCOV_MOD
                                                        .EXTRN   EDT$$G_RDAHED, EDT$$T_RDAHED

                                                        .PSECT   _EDT$CODE,NOWRT,  SHR,  PIC,2

                                          0004 00000    .ENTRY   EDT$STI_TSTTYAHED, Save R2                    ; 0657
                    52 00000000G 00 9E 00002             MOVAB    EDT$$G_RDAHED, R2                            ; 0703
                    1A 00000000G 00 E8 00009             BLBS     EDT$$G_RCOV_MOD, 2$                          ; 0703
                                 62 D5 00010             TSTL     EDT$$G_RDAHED                                ; 0705
                                 12 14 00012             BGTR     1$
                       00000000G 00 9F 00014             PUSHAB   EDT$$T_RDAHED                                ; 0707
           00000000G 00            01 FB 0001A           CALLS    #1, EDT$STI_RDTYAHED
                    62            50 D0 00021             MOVL     R0, EDT$$G_RDAHED
                                 04 15 00024             BLEQ     2$                                           ; 0709
                    50           01 D0 00026 1$:         MOVL     #1, R0
                                 04 00029                RET
                              50 D4 0002A 2$:            CLRL     R0                                           ; 0711
                              04 0002C                   RET

; Routine Size:  45 bytes,   Routine Base:  _EDT$CODE + 0000


;  142         0712 1
;  143         0713 1 !<BLF/PAGE>
```

EDT$TITYPAHD   EDT$TITYPAHD - check for type ahead   M 11
V04-000   EDT$$TI_TSTTYAHED - check for type ahead   16-Sep-1984 01:57:01   VAX-11 Bliss-32 V4.0-742   Page 5
                                                               14-Sep-1984 12:24:59   DISK$VMSMASTER:[EDT.SRC]TITYPAHD.BLI;1 (4)

```
;  145          0714 1 END                                    ! of module EDT$TYTYPAHD
;  146          0715 1
;  147          0716 0 ELUDOM
```

```
;                        PSECT SUMMARY

;        Name                    Bytes                    Attributes

;     _EDT$CODE                       45  NOVEC,NOWRT,  RD , EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)
```

```
;                    Library Statistics

;                                     -------- Symbols --------    Pages      Processing
;        File                         Total   Loaded   Percent    Mapped     Time

;     _$255$DUA28:[EDT.SRC]EDT.L32;1      377      0         0       40       00:00.2
;     _$255$DUA28:[EDT.SRC]PSECTS.L32;1     2      1        50        7       00:00.1
```

```
;                    COMMAND QUALIFIERS

;        BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS$:TITYPAHD/OBJ=OBJ$:TITYPAHD MSRC$:TITYPAHD.BLI/UPDATE=(ENH$:TITY
;        PAHD)

; Size:          45 code + 0 data bytes
; Run Time:        00:09.4
; Elapsed Time:    00:11.1
; Lines/CPU Min:    4560
; Lexemes/CPU-Min: 12184
; Memory Used:  56 pages
; Compilation Complete
```

SCRUPDATM LIS · STARTEDT LIS · TISAVE LIS · SETCOMMAN LIS · TIAUTO LIS · TIDELETE LIS · TILINE LIS · TRACEMAC LIS · UFBUFFER LIS · SCRZAPSIN LIS · UEXACASE LIS · SCRUPDATN LIS · TITYPAHD LIS · TSTKEYDEF LIS · TICLRAUD LIS · SUPPORTS LIS · TICHAR LIS · TIECHO LIS · TRAROUNAM LIS · TRANSLATE LIS · UFSTRING LIS · SYSVAX LIS · SCRWID LIS · TRACELIT LIS · UCVTCASE LIS